Running the IBM PC*jr* Tests

You have been directed here from "First Things First". At this point some of the basic IBM PC*jr* hardware has been tested. You are now ready to test the rest of your IBM PC*jr* system.

1   Turn your IBM PC*jr* power off.

2   Turn your IBM PC*jr* power on. After the IBM Color Bar screen appears, the IBM Personal Computer BASIC message screen appears.

```
The IBM Personal Computer Basic
Version C1.20 Copyright IBM Corp.1981
XXXXX Bytes free
OK
—


1 LIST  2 RUN◄  3 LOAD"  4 SAVE"  5 CONT◄
```
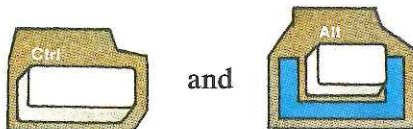
Important: The next screen that appears will appear only briefly, so you need to know what to look for before we continue. The screen that will appear is called the IBM Color Bar screen. When it does appear, your IBM PC*jr* begins to test itself. While this test takes place, the amount of memory being tested appears in the lower right-hand corner. It will start with 4KB and end with either 64KB or 128KB, depending on the amount of memory installed. Make a note of the final memory message when it appears. Go to Step 3.
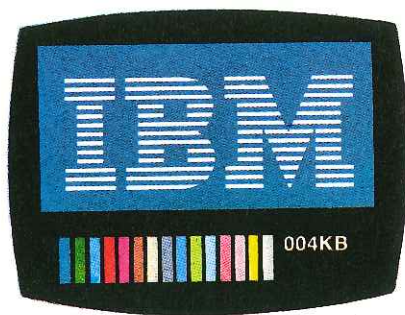
Testing

3   To start running the tests, press and
hold

 and

Then press

Release all three keys.

Does the IBM Color Bar screen
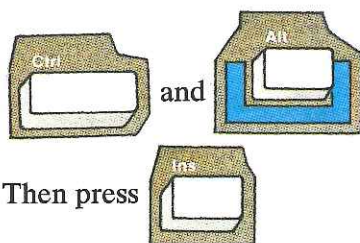appear?

YES –   Go to Step 6.

NO –   Go to Step 4.

4   Are you using the IBM PC*jr*
Keyboard Cord to connect your IBM
PC*jr* Keyboard to your IBM PC*jr*?

YES – Check the Connectors on
the IBM PC*jr* Keyboard
Cord to be sure that they
are not bent or broken, also
make sure that the
connectors are pushed all
the way into the IBM PC*jr*,
and keyboard. Go to Step
5.

NO – Check your IBM PC*jr*
Keyboard to be sure that
the batteries are good, and
that the Keyboard is
positioned within 6,1
meters (20 feet) of your
IBM PC*jr*. Make sure
nothing is blocking the
beam between the
keyboard and the front of
the IBM PC*jr*. Go to Step
5.

Testing

5   Try again to start running tests, press and hold

and

Then press

Release all three keys.

Does the IBM Color Bar screen appear?

YES –   Go to Step 6.

NO –   Have your IBM PC*jr* serviced. See "Service Information" in this section.

6   Did the memory message end with
          64KB?

          YES –   Go to Step 7.

          NO –   Go to Step 8.

7   Do you have the 64KB memory and
          display expansion option installed?

          YES –   Have your IBM PC*jr*
                        serviced. See "Service
                        Information" in this
                        section.

          NO –   Go to Step 10.

8   Did the memory message end with
          128KB?
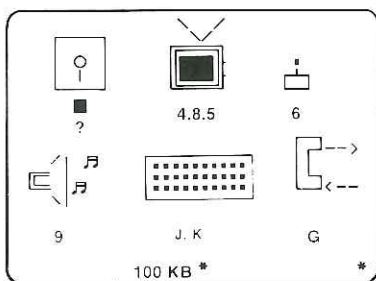
          YES –   Go to Step 9.

          NO –   Have your IBM PC*jr*
                        serviced. See "Service
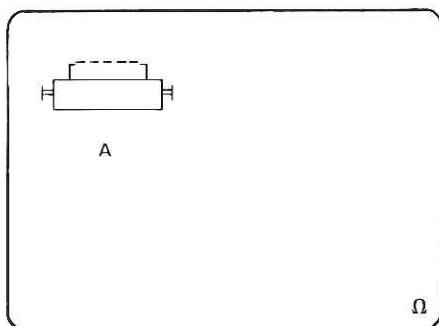   Information" in this
                        section.

9   Do you have the 64KB memory and
          display expansion option installed?

          YES –   Go to Step 10.

          NO –   Have your IBM PC*jr*
                        serviced. See "Service
                        Information" in this
                        section.

10   After the IBM Color Bar screen displays the amount of memory installed, the first of two IBM PC*jr* Test Menu Screens appears.

The First IBM PC*jr* Test Menu Screen looks like this:

The Second IBM PC*jr* Test Menu Screen looks like this:

Notice that there is a character under each figure.
These characters are called Test Tags. Test Tags are
used to select the individual test you wish to run.

When the First IBM PC*jr* Test Menu Screen appears
the blinking cursor is located on Test Tag 1.

You may move the cursor to any of the Test Tags by
pressing the Ins key until the cursor is positioned on the
Test Tag you wish to use.

When you have moved the cursor to Test Tag **G** on the
First IBM PC*jr* Test Menu Screen and press the Ins
key, the Second IBM PC*jr* Test Menu Screen appears.
The cursor will be on Test Tag A.

To return to the First IBM PC*jr* Test Menu Screen,
press the Ins key. The First IBM PC*jr* Test Menu
Screen appears and the cursor is on Test Tag 1.

To start any test:

- Position the cursor on the Test Tag you want.

- Press the Enter key.

- Go to the documentation in this section that describes the test you have chosen to run.

  Note: If you are going to run the Modem Test, disconnect your modem from the telephone jack, before pressing enter.

  Note: If you are going to run the Sound Test, read the first page of "Test Tag 9 - Sound Test"in this Section, before pressing enter.

For example:

- Move the cursor to Test Tag G.

- Before Pressing Enter, disconnect your modem from your telephone jack.

- Press the Enter key.

- Go to "Test Tag G - IBM PC*jr* Internal Modem Test" found in this section.

FIRST IBM PC*jr* TEST MENU SCREEN

Test Tag	Name
1	Diskette Drive Test
4	TV and 40 Column Display Test
8	80 Column Display Test
5	Light Pen Test
6	Attachable Joystick Test
9	Sound Test
J	Keyboard Test
K	Reserved for future use
G	Modem Test

SECOND IBM PC*jr* TEST MENU SCREEN

Test Tag	Name
A	Graphics Printer Test

Testing

BLINKING TEST TAGS

The following Test Tags should always be blinking:

4,5,6,9 and J.

If any of them are not blinking, have your IBM PC*jr* serviced. See "Service Information" in this section.

The following is a list of the options that can be added to your IBM PC*jr*. If the option is installed, the Test Tag will be blinking. If the option is not installed, the Test Tag will not be blinking.

TAG	WILL BE PRESENT AND BLINK WHEN
1	A diskette drive is installed in your IBM PC*jr*.
8	A 64KB Memory and Display Expansion Adapter is installed in your IBM PC*jr*.
A	A Parallel Printer Attachment is attached to your IBM PC*jr*.
G	An IBM PC*jr* Internal Modem is installed in your IBM PC*jr*.

Go to Step 11.

Testing

11   Are all of the Test Tags present and
           blinking for the options you have
           installed?

           YES -   Go to Step 18.

           NO -   Go to Step 12.

12   Select the item that is not blinking
           and follow the instructions in the
           table below.

Number	Tests	Action
1	Diskette Drive	Go to Step 13.
4	TV and 40 Column Display	Have your PC*jr* serviced.
J	Keyboard	
5	Light Pen	
6	Attachable Joystick	See "Service Information" in this section.
9	Sound	
8	80 Column Display	Go to Step 14.
A	Parallel Printer	Go to Step 15.
G	Modem	Go to Step 16.

13   Is your diskette drive installed?

YES –   Have your IBM PC*jr*
             serviced. See "Service
             Information" in this
             section.

NO –   The diskette drive must be
             installed for Test Tag 1 to
             blink. Go to Step 11.

14   Do you have the 64KB Memory and
             Display Expansion option installed in
             your IBM PC*jr*?

YES –   Have your IBM PC*jr*
             serviced. See "Service
             Information" in this
             section.

NO –   The 64KB Memory and
             Display Expansion option
             must be installed for Test
             Tag 8 to blink. Go to Step
             11.

15   Is your Parallel Printer Attachment
           installed?

           YES –   Have your IBM PC*jr*
                       serviced. See "Service
                       Information" in this
                       section.

           NO –   The Parallel Printer
                      Attachment must be
                      installed for Test Tag A to
                      blink. Go to Step 11.

16   Is your IBM PC*jr* Internal Modem
           installed?

           YES –   Have your IBM PC*jr*
                       serviced. See "Service
                       Information" in this
                       section.

           NO –   The IBM PC*jr* Internal
                      Modem must be installed
                      for Test Tag G to blink. Go
                      to Step 11.

17   Is any Test Tag blinking which should not be?

                                    YES –   Have your IBM PC*jr* serviced. See "Service Information" in this section.

                                    NO –   Go to Step 18.

18   Move the cursor to the Test Tag for the test you want to run. Press the Enter key. Go to the documentation in this Section that describes the test you have choosen to run.

Notes:

Service Information

If part of your IBM PC*jr* has a problem and must be serviced, do the following:

1 Turn your IBM PC*jr* and all attachments power off.

2 Unplug your IBM PC*jr* power cord from the wall outlet.

3 Have the failing unit serviced. If you have been directed to have your IBM PC*jr* serviced, don't forget that the power cord, keyboard, and all side attached options are considered part of the IBM PC*jr*, so you need to keep them with the system unit. You should keep any cartridges or diskettes with the IBM PC*jr* that were being used when the failure occurred.

4 Bring the failing unit to your place of purchase for service. Call your place of purchase for specific instructions before bringing in your failing unit.

Testing

Notes: